



SeaCell™LT – The power of seaweed  
in a fiber





## Active ingredients from sea to skin

The unique properties of seaweed help to protect our skin against the harmful environmental influences which we are exposed to in our daily lives. The seaweed is pure and rich in essential substances such as vitamins, trace elements, amino acids and minerals.

The substances found in seaweed help to activate cell regeneration, which in turn can help to relieve skin diseases, reduce inflammation and soothe itchiness. Its high level of antioxidants protects the skin against harmful free radicals, which damage our skin cells.

The natural moisture level of the skin enables an active exchange of those beneficial substances between the fiber and the skin, providing a noticeable sense of wellbeing.

## A patented high-tech process that guarantees long-lasting quality

SeaCell™LT is produced using the Lyocell process, an innovative and eco-friendly production method. Production takes place in a closed loop with no chemicals released as waste. This meets the expectations of our industry both today and in the future. It is one reason why the European

Union awarded the procedure with the 2000 European Environmental Award in the category “technology for sustainable development”.

The high tech fibers are produced exclusively for smartfiber AG on modern fiber production plants at Lenzing AG in Austria. A highly specialized team of engineers and scientists supervises the production process on site.

The patented process embeds the seaweed firmly within a natural cellulose fiber. As a result, the positive properties of the seaweed are permanently preserved within the fiber, even after multiple washing cycles.

## Added value for a wide range of applications

If you are looking for an environmentally sound fiber that offers maximum comfort together with benefits for both mind and body, SeaCell™LT is the natural choice.

The fiber is suitable for a vast range of applications, from sport and fashion clothing, underwear and loungewear to home textiles, and combines easily with any other fiber.

It adds a smooth, silky feel to any fabric, together with the comfort and care elements required from a generation with an active, health-conscious lifestyle.







## The guaranteed effects of SeaCell™LT

Numerous tests by various renowned institutes have confirmed the quality and effectiveness of SeaCell™LT.

Thanks to its ecological and sustainable harvesting together with the gentle process, SeaCell™LT received the EU Ecolabel and meets the requirements according to OEKO-Tex Standard 100 certified for baby products.

Using the well-known ABEL antioxidant test, the University of Jena has confirmed the ability of the seaweed in SeaCell™LT to catch free radicals effectively.



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### Technical data SeaCell™LT 1.7 dtex 38 mm or 6.7 dtex 60 mm

Cellulose fiber with incorporated seaweed (*Ascophyllum nodosum*) produced according to the Lyocell-process.

Fibre composition in conditioned state (% by weight):

Cellulose	≥ 85 %
Seaweed powder	4 %
Fiber finish	0.32 %
Moisture	≤ 12 %
Appearance	light brown

Average textile physical fiber data:

Titer	dtex	1.7	6.7
Cut length	mm	38	60
Tenacity dry	cN/tex	29	22
Elongation dry	%	11.2	9
Tenacity wet	cN/tex	25	17
Elongation wet	%	16.1	14
BISFA wet modulus	cN/tex/5%	7.6	5.5

Cellulose is wood pulp made out of beech tree/eucalyptus.